

Features

- Halogen Free. "Green" Device (Note 1)
- · High Current Capability
- Low Profile Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

_ ,		Value					
Parameter	Parameter Symbol		SMD 24PL	SMD 26PL	SMD 28PL	SMD 210PL	Unit
Peak Repetitive Reverse Voltage	V_{RRM}						
Working Peak Reverse Voltage	V_{RWM}	20	40	60	80	100	V
DC Blocking Voltage	V_R						
RMS Reverse Voltage	V _{RMS}	14	28	42	56	70	V
Average Rectified Forward Current	I _{F(AV)}			2			Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50			Α		
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375			A ² s		

Marking code

Part Number	Marking Code
SMD22PL	M2
SMD24PL	M4
SMD26PL	M6
SMD28PL	M8
SMD210PL	M10

Internal Structure

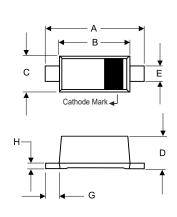
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1 XXXX 2	
2	Anode	XXXX = Marking code	1 0

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.

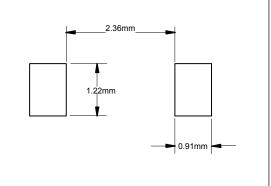
& Amp Gi fZJWY A ci bh GW chh_mF YWJZJYf &0 to 100 Volts





DIMENSIONS						
DIM INCH		HES	MM		NOTE	
ווועו	MIN	MAX	MIN	MAX	NOTE	
Α	0.130	0.152	3.30	3.85		
В	0.100	0.122	2.55	3.10		
С	0.055	0.075	1.40	1.90		
D	0.035	0.053	0.90	1.35		
Е	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Н		0.010		0.25		

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range	SMD22PL THRU SMD24PL	-55		125	°C
TJ	Operating Junction Temperature Range	SMD26PL THRU SMD210PL	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		21		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		85		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SMD22PL ~ SMD24PL	V _F	I _F =2A;T _J =25°C			0.50	V
SMD26PL					0.70	
SMD28PL ~ SMD210PL					0.85	
Reverse Current						
SMD22PL ~ SMD26PL	I _R	at Rated V _R ;T _J =25°C			0.1	mA
		at Rated V _R ;T _J =125°C			20	
SMD28PL ~ SMD210PL		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SMD22PL ~ SMD24PL	CJ	$V_R=4V;f=1MHz;T_J=25$ °C		125		pF
SMD26PL				90		
SMD28PL ~ SMD210PL				60		

^{1.}Mounted on P.C.B. with 8mm*8mm copper pad areas.



Curve Characteristics

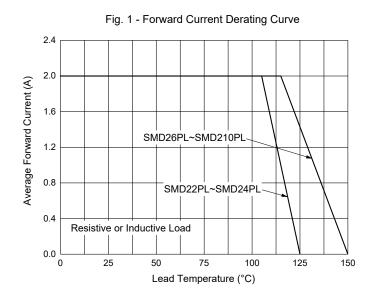


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

40

50

40

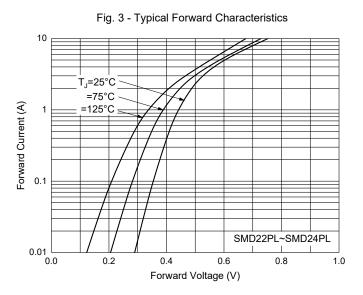
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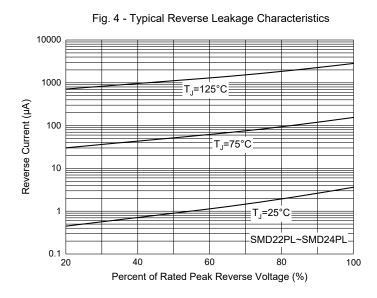
40

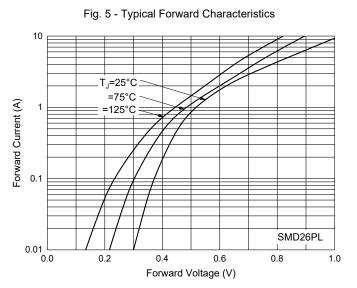
8.3 ms Single Half Sine-Wave

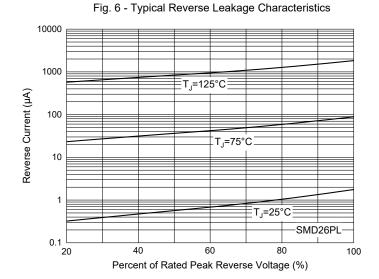
10

Number of Cycles at 60 Hz







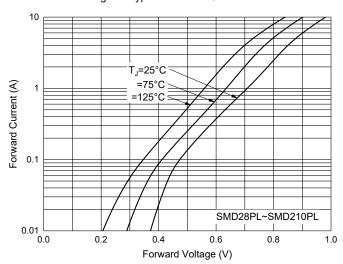


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Curve Characteristics

Fig. 7 - Typical Forward Characteristics



1000

T_J=125°C

100

T_J=75°C

0.1

0.1

T_J=25°C

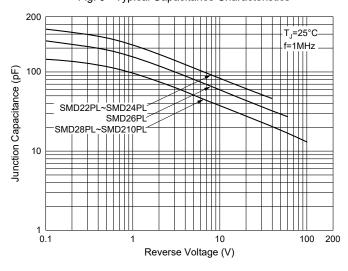
SMD28PL~SMD210PL

0.01

Percent of Rated Peak Reverse Voltage (%)

Fig. 8 - Typical Reverse Leakage Characteristics

Fig. 9 - Typical Capacitance Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:2.5Kpcs/Reel		

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